



# SEQUENCE LISTING

<110> Kenten, John H  
Tramontano, Alfonso  
Pilon, Aprile L  
Lohnas, Gerald L  
Roberts, Steven F

<120> HEAT-SHOCK FUSION-BASED VACCINE SYSTEM

<130> U.S. Patent Application No. 09\026,276

<140> 09/026,276

<141> 1998-02-19

<160> 35

<170> PatentIn Ver. 2.0

<210> 1

<211> 35

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: cloning oligo

<400> 1

Cys Thr Arg Pro Asn Asn Asn Thr Arg Lys Ser Ile His Ile Gly Pro  
1 5 10 15

Gly Arg Ala Phe Tyr Thr Thr Gly Glu Ile Ile Gly Asp Ile Arg Gln  
20 25 30

Ala His Cys  
35

<210> 2

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: cloning oligo

<400> 2

Lys Arg Ile His Ile Gly Pro Gly Arg Ala Phe Tyr Thr Thr Lys  
1 5 10 15

<210> 3

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: cloning oligo

<400> 3

Cys Lys Ser Ile His Ile Gly Pro Gly Arg Ala Phe Tyr Thr Thr Gly  
1 5 10 15

Cys

<210> 4  
<211> 50  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: cloning oligo

<400> 4  
ttaagactgc gtggcggcga ccaggttcac ttccagccgc tgccgccggc 50

<210> 5  
<211> 37  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: cloning oligo

<400> 5  
tgttgtaaa ctgtctgacg ctctgtaagc ttctgca 37

<210> 6  
<211> 43  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: cloning oligo

<400> 6  
gaagcttaca gagcgtcaga cagtttaaca acagccggcg gca 43

<210> 7  
<211> 36  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: cloning oligo

<400> 7  
gcggctggaa gtgaacctgg tcgccgccac gcagtc 36

<210> 8  
<211> 50  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: cloning oligo

<400> 8  
ttaagactgc gtggcgtga ccaggttcac ttccagccgc tgccgccggc 50

<210> 9  
<211> 36  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: cloning oligo

<400> 9

gcggctggaa gtgaacctgg tcagcgccac gcagtc

36

<210> 10

<211> 55

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: cloning oligo

<400> 10

aagaaatcca catcggtccg ggtcgtgctt tctacaccac catcccgcgc gatca

55

<210> 11

<211> 54

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: cloning oligo

<400> 11

atccggcggg atggtggtgt agaaagcacg acccggaccg atgtggattt cttt

54

<210> 12

<211> 33

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: cloning oligo

<400> 12

ttaagactgc gtggcggcat ccacatcggt ccg

33

<210> 13

<211> 29

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: cloning oligo

<400> 13

ggtcgtgctt tctacaccac ctaactgca

29

<210> 14

<211> 34

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: cloning oligo

<400> 14

gttagtggt gtagaaagca cgaccggac cgat

34

<210> 15

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: cloning oligo

<400> 15

gtggatgccg ccacgcagtc

20

<210> 16

<211> 12

<212> PRT

<213> HIV-1

<400> 16

Ile His Ile Gly Pro Gly Arg Ala Phe Tyr Thr Thr  
1 5 10

<210> 17

<211> 19

<212> PRT

<213> Mycobacterium tuberculosis

<400> 17

Asp Gln Val His Phe Gln Pro Leu Pro Pro Ala Val Val Lys Leu Ser  
1 5 10 15

Asp Ala Leu

<210> 18

<211> 22

<212> PRT

<213> Homo sapiens

<400> 18

Lys Glu Asp Val Cys Ala Gln Val His Pro Gln Lys Val Thr Lys Phe  
1 5 10 15

Met Leu Cys Ile Pro Pro  
20

<210> 19

<211> 22

<212> PRT

<213> Homo sapiens

<400> 19

Lys Glu Asp Val Cys Ala Gln Val His Pro Gln Lys Val Thr Lys Phe  
1 5 10 15

Met Leu Cys Met Pro Pro  
20

<210> 20

<211> 20

<212> PRT

<213> Homo sapiens

<400> 20

Lys Glu Cys Ala Gln Val His Pro Gln Lys Val Thr Lys Phe Met Leu  
1 5 10 15

Cys Ile Pro Pro  
20

<210> 21  
<211> 17  
<212> PRT  
<213> Homo sapiens

<400> 21  
Lys Glu Cys Ala Gln Val His Pro Gln Lys Val Thr Lys Phe Met Pro  
1 5 10 15

Pro

<210> 22  
<211> 31  
<212> PRT  
<213> Homo sapiens

<400> 22  
Arg Gly Gly Ser Leu Arg Arg Ser Ser Cys Phe Gly Gly Arg Met Asp  
1 5 10 15

Arg Ile Gly Ala Gln Ser Gly Leu Gly Cys Asn Ser Phe Arg Tyr  
20 25 30

<210> 23  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 23  
Arg Gly Gly Asp Tyr Lys Asp Asp Asp Asp Lys  
1 5 10

<210> 24  
<211> 23  
<212> PRT  
<213> Homo sapiens

<400> 24  
Arg Gly Ala Leu Tyr Thr Lys Val Val His Tyr Arg Lys Trp Ile Lys  
1 5 10 15

Asp Thr Ile Val Ala Asn Pro  
20

<210> 25  
<400> 25  
000

<210> 26  
<211> 20  
<212> PRT  
<213> Porcine

<400> 26

Gln His Trp Ser Tyr Gly Leu Arg Pro Gly Gln His Trp Ser Tyr Gly  
1 5 10 15

Leu Arg Pro Gly  
20

<210> 27  
<211> 21  
<212> PRT  
<213> corona virus

<400> 27  
Asp Asp Pro Lys Thr Gly Gln Phe Leu Gln Gln Ile Asn Ala Tyr Ala  
1 5 10 15

Arg Pro Ser Glu Val  
20

<210> 28  
<211> 10  
<212> PRT  
<213> Porcine

<400> 28  
Glu His Trp Ser Tyr Gly Leu Arg Pro Gly  
1 5 10

<210> 29  
<211> 20  
<212> PRT  
<213> Porcine

<400> 29  
Glu His Trp Ser Tyr Gly Leu Arg Pro Gly Glu His Trp Ser Tyr Gly  
1 5 10 15

Leu Arg Pro Gly  
20

<210> 30  
<211> 20  
<212> PRT  
<213> Porcine

<400> 30  
Glu His Trp Ser Tyr Gly Leu Arg Pro Gly Gln His Trp Ser Tyr Gly  
1 5 10 15

Leu Arg Pro Gly  
20

<210> 31  
<211> 20  
<212> PRT  
<213> Porcine

<400> 31  
Gln His Trp Ser Tyr Gly Leu Arg Pro Gly Glu His Trp Ser Tyr Gly  
1 5 10 15

Leu Arg Pro Gly  
20

<210> 32  
<211> 10  
<212> PRT  
<213> Porcine

<400> 32  
Gln His Trp Ser Tyr Gly Leu Arg Pro Gly  
1 5 10

<210> 33  
<400> 33  
000

<210> 34  
<211> 41  
<212> PRT  
<213> Porcine

<400> 34  
Gln His Trp Ser Tyr Gly Leu Arg Pro Gly Gln His Trp Ser Tyr Gly  
1 5 10 15

Leu Arg Pro Gly Gln His Trp Ser Tyr Gly Leu Arg Pro Gly Gln His  
20 25 30

Trp Ser Tyr Gly Leu Arg Pro Gly Cys  
35 40

<210> 35  
<211> 40  
<212> PRT  
<213> Porcine

<400> 35  
Gln His Trp Ser Tyr Gly Leu Arg Pro Gly Gln His Trp Ser Tyr Gly  
1 5 10 15

Leu Arg Pro Gly Gln His Trp Ser Tyr Gly Leu Arg Pro Gly Gln His  
20 25 30

Trp Ser Tyr Gly Leu Arg Pro Gly  
35 40